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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/500,304	11/12/2004	Hirofumi Yanagizawa	042529	9870
38834 7	7590 07/11/2006		EXAM	INER
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700			GRAINGER, QUANA MASHELL	
			ART UNIT	PAPER NUMBER
	N, DC 20036		2852	

DATE MAILED: 07/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/500,304	YANAGIZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quana M. Grainger	2852				
The MAILING DATE of this communication app		orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_ ·					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	S)⊠ Claim(s) <u>1,4 and 5</u> is/are rejected.					
<u> </u>	Claim(s) 2,3 and 6-11 is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>12 November 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the electrophotographic copying device must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Information Disclosure Statement

3. The information disclosure statement/s (IDS) submitted on 11-12-2004, 9-28-2004, and 6-19-2006 was considered by the examiner.

Claim Objections

4. Claims 5 and 9-11 are objected to because of the following informalities. Claim 5 recites an electrophotographic copying device but does not recite any electrophotographic copying means or components. Claims 9-11 recite an electrophotographic copying device in the preamble but are dependent upon claims that recite a conductive brush in their preamble.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Mizoe et al. (5,805,961). Mizoe et al. teaches a conductive brush, which comprises a base fabric and a mixed fiber of a polyethylene terephthalate fiber and a nylon-66 fiber being raised on the base fabric by pile-flocking and, said polyethylene terephthalate fiber and/or said nylon-66 fiber having a volume resistivity of 10.sup.0 to 10.sup.6 OMEGA-cm (column 4, lines 11-14; 46-49; column 4, line 59- column 5, line 7). The polyethylene terephthalate fiber has a conjugate structure

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congregated a conductive carbon black in a central portion and a volume resistivity of 10.sup.0 to 10.sup.6 OMEGA-cm and, the nylon-66 fiber has a volume resistivity of not less than

10.sup.13 OMEGA-cm (column 4, lines 46-49; column 5, lines 53-67).

7. Claims 1 and 4-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Swift (5,689,791). Swift teaches a conductive brush, which comprises a base fabric and a mixed fiber of a polyethylene terephthalate fiber and a nylon-66 fiber being raised on the base fabric by pile-flocking and, said polyethylene terephthalate fiber and/or said nylon-66 fiber having a volume resistivity of 10.sup.0 to 10.sup.6 OMEGA-cm (column 6, line 57- column 7, line 33). The polyethylene terephthalate fiber has a conjugate structure congregated a conductive carbon black in a central portion and a volume resistivity of 10.sup.0 to 10.sup.6 OMEGA-cm and, the nylon-66 fiber has a volume resistivity of not less than 10.sup.13 OMEGA-cm (column 7, lines 28-46). An electrophotographic copying device comprises the conductive brush installed as a cleaning brush (column 1, lines 4-22).

Allowable Subject Matter

8. Claims 2-3 and 6-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Naghibi teaches a conductive brush.

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Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana M. Grainger whose telephone number is 571-272-2135. The examiner can normally be reached on 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Quana M Grainger Primary Examiner Art Unit 2852